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DATE: Monday, April 03, 2006

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		<i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L6	L5 and x-ray and atomic coordinate\$1	8
<input type="checkbox"/>	L5	(acyl carrier protein synthase or ACPS) same (acyl carrier protein or acp) same crystal\$	150
		<i>DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L4	L3 and atomic coordinate\$1	6
<input type="checkbox"/>	L3	L1 and x-ray	46
<input type="checkbox"/>	L2	(acyl carrier protein synthase or ACPS) same (acyl carrier protein or acp) same crystal\$ same complex	21
<input type="checkbox"/>	L1	(acyl carrier protein synthase or ACPS) same (acyl carrier protein or acp) same crystal\$	200

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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 6957150 B2

Using default format because multiple data bases are involved.

L4: Entry 1 of 6

File: USPT

Oct 18, 2005

US-PAT-NO: 6957150

DOCUMENT-IDENTIFIER: US 6957150 B2

TITLE: Methods for identifying an agent that interacts with an active site of acyl carrier protein synthase or acyl carrier protein synthase complex

DATE-ISSUED: October 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Parris; Kevin Delos	Auburndale	MA		
Somers; William Stuart	Cambridge	MA		
Tam; Amy Szepui	Medford	MA		
Long Lin; Laura	Weston	MA		
Stahl; Mark Lloyd	Lexington	MA		

US-CL-CURRENT: 702/27; 702/19, 702/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D.
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☐ 2. Document ID: US 6684162 B2

L4: Entry 2 of 6

File: USPT

Jan 27, 2004

US-PAT-NO: 6684162

DOCUMENT-IDENTIFIER: US 6684162 B2

TITLE: Methods for identifying agents that interact with an active site of acyl carrier protein synthase-acyl carrier protein complex

DATE-ISSUED: January 27, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Parris; Kevin Delos	Auburndale	MA		
Somers; William Stuart	Cambridge	MA		
Tam; Amy Szepui	Framingham	MA		

Lin; Laura Long	Weston	MA
Stahl; Mark Lloyd	Lexington	MA
Powers; Robert	Westford	MA
Xu; Guang-Yi	Medford	MA

US-CL-CURRENT: 702/27, 435/7.1, 435/7.2, 436/4

ABSTRACT:

This invention is directed to the crystal structure of Acyl Carrier Protein Synthase (ACPS) complexed with Acyl Carrier Protein (ACP), the solution structure of B. subtilis ACP, and to the use of these structures in rational drug design methods to identify agents that may interact with active sites of ACPS and ACP, and to the testing of these agents to identify agents that may represent novel antibiotics.

36 Claims, 98 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 98

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 6100091 A

L4: Entry 3 of 6

File: USPT

Aug 8, 2000

US-PAT-NO: 6100091

DOCUMENT-IDENTIFIER: US 6100091 A

TITLE: Modified acyl-ACP desaturase

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahoon; Edgar B.	Shoreham	NY		
Shanklin; John	Shoreham	NY		
Lindgvist; Ylva	Jarfalla			SE
Schneider; Gunter	Jarfalla			SE

US-CL-CURRENT: 435/455, 435/189, 435/252.3, 435/254.11, 435/320.1, 435/325, 435/410, 435/440, 536/23.2

ABSTRACT:

Disclosed is a methods for modifying the chain length and double bond positional specificities of a soluble plant fatty acid desaturase. More specifically, the method involves modifying amino acid contact residues in the substrate binding channel of the soluble fatty acid desaturase which contact the fatty acid. Specifically disclosed is the modification of an acyl-ACP desaturase. Amino acid contact residues which lie within the substrate binding channel are identified, and subsequently replaced with different residues to effect the modification of

activity.

58 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 5888790 A

L4: Entry 4 of 6

File: USPT

Mar 30, 1999

US-PAT-NO: 5888790
DOCUMENT-IDENTIFIER: US 5888790 A

TITLE: Modified Acyl-ACP desaturase

DATE-ISSUED: March 30, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahoon; Edgar B.	Shoreham	NY		
Shanklin; John	Shoreham	NY		
Lindqvist; Ylva	Jarfalla			SE
Schneider; Gunter	Jarfalla			SE

US-CL-CURRENT: 435/440; 435/189

ABSTRACT:

Disclosed is a method for modifying the chain length and double bond positional specificities of a soluble plant fatty acid desaturase. More specifically, the method involves modifying amino acid contact residues in the substrate binding channel of the soluble fatty acid desaturase which contact the fatty acid. Specifically disclosed is the modification of an acyl-ACP desaturase. Amino acid contact residues which lie within the substrate binding channel are identified, and subsequently replaced with different residues to effect the modification of activity.

20 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 5705391 A

L4: Entry 5 of 6

File: USPT

Jan 6, 1998

US-PAT-NO: 5705391

DOCUMENT-IDENTIFIER: US 5705391 A

TITLE: Modified acyl-ACP desaturase

DATE-ISSUED: January 6, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahoon; Edgar B.	Shoreham	NY		
Shanklin; John	Shoreham	NY		
Lindgvist; Ylva	Jarfalla			SE
Schneider; Gunter	Jarfalla			SE

US-CL-CURRENT: 435/419; 435/189, 435/243, 435/252.3, 435/254.11, 435/255.1,
435/320.1, 536/23.2

ABSTRACT:

Disclosed is a methods for modifying the chain length and double bond positional specificities of a soluble plant fatty acid desaturase. More specifically, the method involves modifying amino acid contact residues in the substrate binding channel of the soluble fatty acid desaturase which contact the fatty acid. Specifically disclosed is the modification of an acyl-ACP desaturase. Amino acid contact residues which lie within the substrate binding channel are identified, and subsequently replaced with different residues to effect the modification of activity.

9 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 6. Document ID: US 20040161813 A1

L4: Entry 6 of 6

File: DWPI

Aug 19, 2004

DERWENT-ACC-NO: 2004-593075

DERWENT-WEEK: 200457

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TITLE: Crystal of binding complex between beta-ketoacyl acyl carrier protein synthase I (FabB) and thiolactomycin, or FabB and cerulenin, useful for identifying and/or designing drugs to treat bacterial infections

INVENTOR: PRICE, A; ROCK, C O ; WHITE, S

PRIORITY-DATA: 2000US-223222P (August 4, 2000), 2001US-0917331 (July 27, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>US 20040161813 A1</u>	August 19, 2004		029	C12Q001/48

INT-CL (IPC): C12 Q 1/48

ABSTRACTED-PUB-NO: US20040161813A
BASIC-ABSTRACT:

NOVELTY - A crystal (I) of a binding complex between beta -ketoacyl acyl carrier protein (ACP) synthase I (FabB) and thiolactomycin (TLM), or FabB and cerulenin, that effectively diffracts X-rays for the determination of the atomic coordinates to a resolution of better than 3.5 Angstrom , is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) obtaining (M1) a crystal of an inhibitor-FabB complex, comprising growing a crystal of the inhibitor-FabB complex in a buffered solution containing 2.0 M ammonium sulfate, and 20% polyethylene glycol (PEG) 400;

(2) a computer containing within its memory a representation of the FabB-cerulenin binding complex or its portion, or FabB-TLM binding complex or its portion, comprising a machine-readable data storage medium comprising data storage encoded with machine-readable data that contains atomic coordinates for the FabB-cerulenin complex or FabB-TLM complex, a working memory for storing instructions for processing the machine-readable data, a central processing unit coupled to the working memory and to the machine-readable data storage medium for processing the machine readable data into three-dimensional representation of the FabB-cerulenin binding complex or its portion, or FabB-TLM binding complex or its portion, and a display coupled to the central-processing unit for displaying the three-dimensional representation;

(3) identifying (M2) an agent for use as an inhibitor of bacterial fatty acid synthesis using (I), involves (a) selecting a potential agent by performing rational drug design with the atomic coordinates determined from (I), or selecting a potential agent by performing rational drug design with the set of atomic coordinates of FabB-cerulenin binding complex and/or FabB-TLM binding complex, where the selecting is performed in conjunction with computer modeling, (b) contacting the potential agent with a beta -ketoacyl-ACP synthase, and (c) measuring the activity of the beta -ketoacyl-ACP synthase, where a potential agent is identified as an agent that inhibits bacterial fatty acid synthesis when there is a decrease in the activity of the beta -ketoacyl-ACP synthase, or when there is a decrease in the activity of the beta -ketoacyl-ACP synthase in the presence of the agent relative to in its absence;

(4) identifying (M3) an agent that inhibits bacterial growth using the atomic coordinates obtained from (I), involves step (a) of (M2), contacting the potential agent with a bacterial culture, and measuring the growth of the bacterial culture, where a potential agent is identified as an agent that inhibits bacterial growth when there is a decrease in the growth of the bacterial culture; and

(5) selecting (M4) a compound that potentially inhibits fatty acid synthesis, involves defining the structure of the FabB-inhibitor complex by the atomic coordinates of FabB-cerulenin binding complex and/or FabB-TLM binding complex, and selecting a compound which potentially inhibits fatty acid synthesis, where the selecting is performed with the aid of the structure defined in above step.

ACTIVITY - Antibacterial.

MECHANISM OF ACTION - Fatty acid synthesis inhibitor.

USE - (I) is useful for identifying an agent for use as an inhibitor of bacterial fatty acid synthesis, identifying an agent that inhibits bacterial growth, and for selecting a compound that potentially inhibits fatty acid synthesis (claimed). (I)

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☐ 1. Document ID: US 20060035294 A1

L6: Entry 1 of 8

File: PGPB

Feb 16, 2006

PGPUB-DOCUMENT-NUMBER: 20060035294

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060035294 A1

TITLE: Use of the protein maba (fabg1) of mycobacterium tuberculosis for designing and screening antibiotics

PUBLICATION-DATE: February 16, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Quemard; Annaik	Montgiscard		FR
Labesse; Gilles	Montpellier		FR
Daffe; Mamadou	Toulouse		FR
Marrakchi; Hedia	Toulouse		FR
Douquet; Dominique	Montpellier		FR
Cohen-Gonsaud; Martin	Nimes		FR
Ducasse; Stephanie	Toulouse		FR

US-CL-CURRENT: [435/7.32](#); [435/252.3](#), [435/320.1](#), [435/69.3](#), [530/350](#), [702/19](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 2. Document ID: US 20040181038 A1

L6: Entry 2 of 8

File: PGPB

Sep 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040181038

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040181038 A1

TITLE: Novel fabh enzyme, compositions capable of binding to said enzyme and methods of use thereof

PUBLICATION-DATE: September 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Janson, Cheryl Ann	Bryn Mawr	PA	US
Qiu, Xiayang	Audubon	PA	US

US-CL-CURRENT: 530/350; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 3. Document ID: US 20040161813 A1

L6: Entry 3 of 8

File: PGPB

Aug 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040161813
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040161813 A1

TITLE: Structure of beta-ketoacyl-[acyl carrier protein] synthases complexed with inhibitors and methods of use thereof

PUBLICATION-DATE: August 19, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Rock, Charles O.	Bartlett	TN	US
Price, Allen	Memphis	TN	US
White, Stephen	Memphis	TN	US

US-CL-CURRENT: 435/15; 435/193, 700/90, 702/27

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. De
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☐ 4. Document ID: US 20040078147 A1

L6: Entry 4 of 8

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040078147
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040078147 A1

TITLE: Crystal structure of ACPS/ACP complex, solution structure of B.subtilis ACP, and uses thereof

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Parris, Kevin Delos	Auburndale	MA	US
Somers, William Stuart	Cambridge	MA	US
Tam, Amy Szepui	Medford	MA	US
Lin, Laura Long	Weston	MA	US
Stahl, Mark LIoyd	Lexington	MA	US

Powers, Robert	Westford	MA	US
Xu, Guang-Yi	Medford	MA	US

US-CL-CURRENT: 702/19; 435/193

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 5. Document ID: US 20030211588 A1

L6: Entry 5 of 8

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211588
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030211588 A1

TITLE: METHODS FOR IDENTIFYING AGENTS THAT INTERACT WITH AN ACTIVE SITE

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Parris, Kevin Delos	Auburndale	MA	US
Somers, William Stuart	Cambridge	MA	US
Tam, Amy Szepui	Medford	MA	US
Lin, Laura Long	Weston	MA	US
Stahl, Mark Lloyd	Lexington	MA	US
Powers, Robert	Westford	MA	US
Xu, Guang-Yi	Medford	MA	US

US-CL-CURRENT: 435/193; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 6. Document ID: US 20030119162 A1

L6: Entry 6 of 8

File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119162
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030119162 A1

TITLE: Structural basis of quorum sensing signal generation and methods and therapeutic agents derived therefrom

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Churchill, Mair E.A.	Littleton	CO	US
von Bodman, Susanne B.	Tolland	CT	US

Schweizer, Herbert P.	Loveland	CO	US
Gould, Ty A.	Lakewood	CO	US
Hoang, Tung Thanh	Calgary	CO	CA
Murphy, Frank V. IV	Cambridge		GB
Watson, William T.	Aurora		US

US-CL-CURRENT: 435/193; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 7. Document ID: US 20030068802 A1

L6: Entry 7 of 8

File: PGPB

Apr 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030068802

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030068802 A1

TITLE: Use of streptococcus pneumoniae acyl carrier protein synthase crystal
structure in diagnostics, antimicrobial drug design, and biosensors

PUBLICATION-DATE: April 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chirgadze, Nicholas Yuri	Indianapolis	IN	US
Briggs, Stephen Lyle	Indianapolis	IN	US
Zhao, Genshi	Indianapolis	IN	US
McAllister, Kelly Ann	Indianapolis	IN	US

US-CL-CURRENT: 435/193; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw. D
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☐ 8. Document ID: US 20020094562 A1

L6: Entry 8 of 8

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020094562

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020094562 A1

TITLE: Crystal structure of acyl carrier protein synthase and acyl carrier protein
synthase complex

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Parris, Kevin Delos	Auburndale	MA	US

Somers, William Stuart	Cambridge	MA	US
Tam, Amy Szepui	Medford	MA	US
Lin, Laura Long	Weston	MA	US
Stahl, Mark Lloyd	Lexington	MA	US

US-CL-CURRENT: 435/196; 702/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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